

AURORA

Hand Surgery, P.C.

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HANDOUT FOR **THE M.R.I. & T.F.C.C. TEARS**

I) PUNNETT SQUARE DEFINITION

- A) TRUE POSITIVE
- B) FALSE POSITIVE
- C) FALSE NEGATIVE
- D) TRUE NEGATIVE

II) M.R.I. ACCURACY

- A) WE REVIEWED THE LAST 101 TFCC REPAIRS IN MY PRACTICE
- B) DATED FROM 2006 – PRESENT
- C) RADIOLOGIST'S READING USED (NOT MINE)
- D) THREE CATEGORIES OF ANSWER

III) M.R.I. ACCURACY (CONT)

- A) CAT. 1: STATEMENT SUGGESTING THAT THE TFCC IS TORN
 - 1) POSSIBLY; PROBABLY; ETC INCLUDED
 - 2) VERY LIMITED NUMBER WITH DEFINITIVE DIAGNOSIS
- B) CAT. 2: RELATED STRUCTURES INJURED
- C) CAT. 3: NO EVIDENCE OF A TFCC TEAR

IV) M.R.I. DATA

- A) ALL M.R.I.'S WERE FROM PATIENTS WITH SURGICALLY IDENTIFIED TFCC TEARS
- B) RESULTS PUT INTO PUNNETT SQUARE

V) M.R.I. DATA (CONT)

- A) CATEGORY 1 = TRUE POSITIVE
- B) CATEGORY 3 = FALSE NEGATIVE
- C) CATEGORY 2 = VAGUE DIAGNOSIS

VI) RESULTS

- A) TRUE POSITIVE: 26%
- B) FALSE NEGATIVE: 64%
- C) VAGUE DIAGNOSIS: 10%

VII) M.R.I. RELIABILITY SUMMATION

- A) VERY GOOD **TRUE POSITIVE**
- B) CLINICALLY SIGNIFICANT **FALSE NEGATIVE**
- C) **FALSE POSITIVE** NOT FOUND
- D) **TRUE NEGATIVE** NOT A FACTOR
 - 1) WOULD INVOLVE SURGERY WITHOUT A TEAR FOUND
 - 2) ONE OCCURRENCE IN 16 YEARS

VIII) DECISION TO OPERATE...

- A) HISTORY
- B) MECHANISM OF INJURY
- C) PATIENT RELIABILITY
- D) PHYSICAL EXAM
- E) POSSIBLE X-RAY FINDINGS
- F) M.R.I. ONLY IF POSITIVE

IX) MRI DATA USE:

- A) OPERATE IF TEAR FOUND
- B) READ BETWEEN THE LINES
- C) GAINS AN ADDITIONAL 10%
- D) H&P TRUMPS TECHNOLOGY

X) WHY USE TECHNOLOGY?

- A) EVERYONE ELSE DOES...
- B) LITIGATION ARMOR...
- C) SIMPLER AND FASTER...
- D) H&P'S TAKE TIME
- E) GRAY HAIRS...
- F) IT MAY BE BETTER THAN YOU...
- G) IT'S RIGHT SOME OF THE TIME...

XI) BOTTOM LINE:

- A) I AM NOT TRYING TO DISSUADE THE USE OF NEW TECHNOLOGY
- B) I AM ONLY RECOMMENDING THAT WE NOT DEPEND BLINDLY ON IT
- C) IT SHOULD BE USED SENSIBLY, WITH ITS LIMITATIONS RECOGNIZED

Punnett Square

TRUE POSITIVE	FALSE POSITIVE
FALSE NEGATIVE	TRUE NEGATIVE

MRI Findings	No Findings	Maybe
26	64	10

Chart 3

